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**Hobson Lane,Maria Dyshel**

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Programming Large Language Models with Azure Open AI Francesco Esposito,2024-04-03 Use LLMs to build better business software applications Autonomously communicate with users and optimize business tasks with applications built to make the interaction between humans and computers smooth and natural Artificial Intelligence expert Francesco Esposito illustrates several scenarios for which a LLM is effective crafting sophisticated business solutions shortening the gap between humans and software equipped machines and building powerful reasoning engines Insight into prompting and conversational programming with specific techniques for patterns and frameworks unlock how natural language can also lead to a new advanced approach to coding Concrete end to end demonstrations featuring Python and ASP NET Core showcase versatile patterns of interaction between existing processes APIs data and human input Artificial Intelligence expert Francesco Esposito helps you Understand the history of large language models and conversational programming Apply prompting as a new way of coding Learn core prompting techniques and fundamental use cases Engineer advanced prompts including connecting LLMs to data and function calling to build reasoning engines Use natural language in code to define workflows and orchestrate existing APIs Master external LLM frameworks Evaluate responsible AI security privacy and accuracy concerns Explore the AI regulatory landscape Build and implement a personal assistant Apply a retrieval augmented generation RAG pattern to formulate responses based on a knowledge base Construct a conversational user interface For IT Professionals and Consultants For software professionals architects lead developers programmers and Machine Learning enthusiasts For anyone else interested in natural language processing or real world applications of human like language in software

**Supremacy** Parmy Olson,2024-09-10 WINNER OF THE THE FINANCIAL TIMES AND SCHRODERS 2024 BUSINESS BOOK OF THE YEAR AWARD In November of 2022 a webpage was posted online with a simple text box It was an AI chatbot called ChatGPT and was unlike any app people had used before It was more human than a customer service agent more convenient than a Google search Behind the scenes battles for control and prestige between the world s two leading AI firms OpenAI and DeepMind who now steers Google s AI efforts has remained elusive until now In Supremacy Olson tech writer at Bloomberg tells the astonishing story of the battle between these two AI firms their struggles to use their tech for good and the hazardous direction they could go as they serve two tech Goliaths whose power is unprecedented in history The story focuses on the continuing rivalry of two key CEOs at the center of it all who cultivated a religion around their mission to build god like super intelligent machines Sam Altman CEO of OpenAI and Demis Hassabis the CEO of DeepMind Supremacy sharply alerts readers to the real threat of artificial intelligence that its top creators are ignoring the profit driven spread of flawed and biased technology into industries education media and more With exclusive access to a network of high ranking sources Parmy Olson uses her 13 years of experience covering technology to bring to light the exploitation of the greatest invention in human history and how it will impact us all

*In Musk We Trust* Joseph

Orefice,2024-10-10 Elon Musk is not just an inventor or entrepreneur he is a visionary who is reshaping the future of humanity From revolutionizing electric vehicles with Tesla to pioneering space travel through SpaceX Musk is driving bold innovation across industries that affect every facet of our lives But Musk's story is about more than technological breakthroughs it's about the relentless pursuit of progress the defense of free speech and the embodiment of the American Dream In Musk We Trust delves deep into Musk's world exploring how his audacious ideas are turning science fiction into reality Whether it's his dream of making humanity a multi-planetary species or his mission to accelerate the world's transition to sustainable energy Musk is leading us toward a future of endless possibilities This book examines his life philosophy and the personal sacrifices he has made along the way offering readers an inside look at the man behind the innovations Musk's vision is not without challenges He has faced fierce criticism regulatory battles and intense scrutiny Yet every setback only fuels his determination This book tells the story of a man who thrives on pushing boundaries fighting against the naysayers and leading the charge toward a more connected sustainable and expansive future For those who see Musk as a champion of free speech and personal liberty his acquisition of Twitter now X is covered in depth It illustrates his unwavering commitment to ensuring that open dialogue remains a cornerstone of our society In Musk We Trust captures Musk's enduring influence showing how one man's ambition is shaping the world of tomorrow Whether you're fascinated by electric cars space exploration or simply curious about the man redefining the limits of innovation this book provides a compelling narrative of Musk's journey Join the story of the visionary leading us into the future

**Sam Altman** MANAS

PAL,2025-10-29 Sam Altman Architect of the AI Age is the definitive biography of one of the most influential figures in modern technology the man behind OpenAI and ChatGPT From his early days as a curious Midwestern child teaching himself to code to his rise as a Silicon Valley founder with Loopt and later as president of Y Combinator guiding hundreds of startups Altman's journey reflects the restless drive of innovation in its purest form But his most consequential chapter began with the founding of OpenAI a bold mission to ensure that artificial intelligence would serve humanity not threaten it This book traces the story of how OpenAI went from a non-profit research lab to the creator of ChatGPT a tool that shocked the world by showing just how close we may be to artificial general intelligence Along the way it explores the controversial decision to adopt a capped profit structure the multibillion-dollar partnership with Microsoft and the debates over safety ethics and regulation that Altman has been forced to navigate on the global stage Across more than 30 000 words of research and storytelling you'll discover Altman's childhood education and first ventures in tech Lessons from Loopt and his years shaping the next generation of startups at Y Combinator The founding vision values and controversies of OpenAI How GPT models evolved from obscure research projects into cultural phenomena The release of ChatGPT and the shockwaves it sent through business education and society Altman's views on AGI existential risk and the urgent need for regulation Criticisms and controversies that have tested his leadership The open-ended possibilities of a future shaped by artificial intelligence from

utopia to dystopia This is not only a biography of Sam Altman but a chronicle of our time the birth of an intelligence beyond human design and the extraordinary risks and opportunities it presents For anyone curious about where technology is heading and the people steering it this book offers both a portrait of a visionary and a reflection on the choices that will define the century The future of AI is being written now This is the story of the man holding the pen

**Reinforcement Learning** Trilokesh Khatri,2025-01-03 Reinforcement Learning A Practical Guide to Algorithms delves into the impactful world of reinforcement learning a key branch of AI Spanning over five decades reinforcement learning has significantly advanced AI offering solutions for planning budgeting and strategic decision making This book provides a comprehensive understanding of reinforcement learning focusing on building smart models and agents that adapt to changing requirements We cover fundamental and advanced topics including value based methods like UCB SARSA and Q learning as well as function approximation techniques Additionally we explore artificial neural networks LSTD gradient methods emphatic TD methods average reward methods and policy gradient methods With clear explanations diagrams and examples this book ensures that readers can grasp and apply reinforcement learning algorithms to real world problems effectively By the end you will have a solid foundation in both theoretical and practical aspects of reinforcement learning

**The Routledge Handbook of Artificial Intelligence and Philanthropy** Giuseppe Ugazio,Milos Maricic,2024-11-07 The Routledge Handbook of Artificial Intelligence and Philanthropy acts as a catalyst for the dialogue between two ecosystems with much to gain from collaboration artificial intelligence AI and philanthropy Bringing together leading academics AI specialists and philanthropy professionals it offers a robust academic foundation for studying both how AI can be used and implemented within philanthropy and how philanthropy can guide the future development of AI in a responsible way The contributors to this Handbook explore various facets of the AI philanthropy dynamic critically assess hurdles to increased AI adoption and integration in philanthropy map the application of AI within the philanthropic sector evaluate how philanthropy can and should promote an AI that is ethical inclusive and responsible and identify the landscape of risk strategies for their limitations and or potential mitigation These theoretical perspectives are complemented by several case studies that offer a pragmatic perspective on diverse successful and effective AI philanthropy synergies As a result this Handbook stands as a valuable academic reference capable of enriching the interactions of AI and philanthropy uniting the perspectives of scholars and practitioners thus building bridges between research and implementation and setting the foundations for future research endeavors on this topic The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

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didactical Python implementations of evolutionary algorithms that researchers have recently applied to complex optimization problems Cases of successful application of evolutionary algorithms to real world like optimization problems are presented together with source code that allows the reader to gain insight into the idiosyncrasies of the practical application of evolutionary algorithms Key Features Includes detailed descriptions of evolutionary algorithm paradigms Provides didactic implementations of the algorithms in Python a programming language that has been widely adopted by the AI community Discusses the application of evolutionary algorithms to real world optimization problems Presents successful cases of the application of evolutionary algorithms to complex optimization problems with auxiliary source code [Generative AI for Cloud Solutions](#) Paul Singh,Anurag Karuparti,2024-04-22 Explore Generative AI the engine behind ChatGPT and delve into topics like LLM infused frameworks autonomous agents and responsible innovation to gain valuable insights into the future of AI Key Features Gain foundational GenAI knowledge and understand how to scale GenAI ChatGPT in the cloud Understand advanced techniques for customizing LLMs for organizations via fine tuning prompt engineering and responsible AI Peek into the future to explore emerging trends like multimodal AI and autonomous agents Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionGenerative artificial intelligence technologies and services including ChatGPT are transforming our work life and communication landscapes To thrive in this new era harnessing the full potential of these technologies is crucial Generative AI for Cloud Solutions is a comprehensive guide to understanding and using Generative AI within cloud platforms This book covers the basics of cloud computing and Generative AI ChatGPT addressing scaling strategies and security concerns With its help you ll be able to apply responsible AI practices and other methods such as fine tuning RAG autonomous agents LLMOps and Assistants APIs As you progress you ll learn how to design and implement secure and scalable ChatGPT solutions on the cloud while also gaining insights into the foundations of building conversational AI such as chatbots This process will help you customize your AI applications to suit your specific requirements By the end of this book you ll have gained a solid understanding of the capabilities of Generative AI and cloud computing empowering you to develop efficient and ethical AI solutions for a variety of applications and services What you will learn Get started with the essentials of generative AI LLMs and ChatGPT and understand how they function together Understand how we started applying NLP to concepts like transformers Grasp the process of fine tuning and developing apps based on RAG Explore effective prompt engineering strategies Acquire insights into the app development frameworks and lifecycles of LLMs including important aspects of LLMOps autonomous agents and Assistants APIs Discover how to scale and secure GenAI systems while understanding the principles of responsible AI Who this book is for This artificial intelligence book is for aspiring cloud architects data analysts cloud developers data scientists AI researchers technical business leaders and technology evangelists looking to understanding the interplay between GenAI and cloud computing Some chapters provide a broad overview of GenAI which are suitable for readers with basic to no prior AI experience aspiring to harness AI

s potential Other chapters delve into technical concepts that require intermediate data and AI skills A basic understanding of a cloud ecosystem is required to get the most out of this book *Natural Language Processing in Action, Second Edition* Hobson Lane,Maria Dyshel,2025-02-25 Develop your NLP skills from scratch with an open source toolbox of Python packages Transformers Hugging Face vector databases and your own Large Language Models Natural Language Processing in Action Second Edition has helped thousands of data scientists build machines that understand human language In this new and revised edition you ll discover state of the art Natural Language Processing NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more You ll create NLP tools that can detect fake news filter spam deliver exceptional search results and even build truthfulness and reasoning into Large Language Models LLMs In Natural Language Processing in Action Second Edition you will learn how to Process analyze understand and generate natural language text Build production quality NLP pipelines with spaCy Build neural networks for NLP using Pytorch BERT and GPT transformers for English composition writing code and even organizing your thoughts Create chatbots and other conversational AI agents In this new and revised edition you ll discover state of the art NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more Plus you ll discover vital skills and techniques for optimizing LLMs including conversational design and automating the trial and error of LLM interactions for effective and accurate results About the technology From nearly human chatbots to ultra personalized business reports to AI generated email news stories and novels natural language processing NLP has never been more powerful Groundbreaking advances in deep learning have made high quality open source models and powerful NLP tools like spaCy and PyTorch widely available and ready for production applications This book is your entrance ticket and backstage pass into the next generation of natural language processing About the book Natural Language Processing in Action Second Edition introduces the foundational technologies and state of the art tools you ll need to write and publish NLP applications You learn how to create custom models for search translation writing assistants and more without relying on big commercial foundation models This fully updated second edition includes coverage of BERT Hugging Face transformers fine tuning large language models and more What s inside NLP pipelines with spaCy Neural networks with PyTorch BERT and GPT transformers Conversational design for chatbots About the reader For intermediate Python programmers familiar with deep learning basics About the author Hobson Lane is a data scientist and machine learning engineer with over twenty years of experience building autonomous systems and NLP pipelines Maria Dyshel is a social entrepreneur and artificial intelligence expert and the CEO and cofounder of Tangible AI Cole Howard and Hannes Max Hapke were co authors of the first edition *Primitive Methodist* ,1898 **Dependable Highways** ,1916 *Mushroom Culture and Pure Culture Spawn American Spawn Company* (Saint Paul, Minn.),1916 **THE FARMERS' REGISTER: A MONTHLY PUBLICATION DEVOTED TO THE IMPROVEMENT OF THE PRACTICE AND SUPPORT OF THE INTERESTS OR AGRICULTURE** ,1842 **The Law Journal**

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